

NAKABAYASHI

Serial No. 10/031,280

Response to Office Action dated June 19, 2006



**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in this application.

**Listing of Claims:**

Claims 1-18 (Canceled).

Claim 19 (Previously Presented): A packet processor for processing packets of data received via a network to reproduce the data, comprising:

a receiving buffer for storing received packets;

a reproducing means for reproducing data of the packets based on a reproduction clock;

and

a control means for performing control so as to reproduce data without breaks,

wherein the control means controls the packets having been stored in the receiving buffer by their number, holds a reference value for the number of received packets, which is determined beforehand, and causes the reproducing means to start data reproduction when the number of packets exceeds the reference number; monitors a state of the receiving buffer and collects, when the data in the buffer is used up, data up to a level corresponding to the reference value before causing the reproducing means to restart data reproduction; and monitors the number of packets in the receiving buffer at intervals of a predetermined time period, and when a result shows increase or decrease in the number of packets with time, the control means, based on the result, modifies a receiving buffer size and the reference value for the number of received packets at which reproduction of data is started.

Claim 20 (Previously Presented): A packet processor for processing packets of data received via a network to reproduce the data, comprising:

a receiving buffer for storing received packets;  
a reproducing means for reproducing data of the packets based on a reproduction clock;  
and  
a control means for performing control so as to reproduce data without breaks,  
wherein the control means controls the packets having been stored in the receiving buffer by their number, holds a reference value for the number of received packets, which is determined beforehand, and causes the reproducing means to start data reproduction when the number of packets exceeds the reference number; monitors a state of the receiving buffer and discards, when the data in the buffer exceeds a predetermined buffer size, a fixed amount of data from the buffer; and monitors the number of packets in the receiving buffer at intervals of a predetermined time period, and when a result shows increase or decrease in the number of packets with time, the control means, based on the result, modifies the receiving buffer size and the reference value for the number of received packets at which reproduction of data is started.

Claim 21 (Currently Amended): A packet processor for processing packets of data received via a network to reproduce the data, comprising:  
a receiving buffer for storing received packets;  
a reproducing means for reproducing data of the packets based on a reproduction clock;  
and  
a control means for performing control so as to reproduce data without breaks,  
wherein the control means controls the packets having been stored in the receiving buffer by their number, holds a reference value for the number of received packets, which is determined beforehand, and causes the reproducing means to start data reproduction when the number of packets exceeds the reference number; monitors a state of the receiving buffer and modifies, when the data in the buffer is used up, the reference value for the number of received packets ~~packet~~ at which reproduction of data is started, upon a next reproduction of data; and monitors the number of packets in the receiving buffer at intervals of a predetermined time period, and when a result shows increase or decrease in the number of packets with time, the control means, based on the result, modifies a receiving buffer size and the reference value for the number of received packets at which reproduction of data is started.

Claim 22 (Previously Presented): A packet processor for processing packets of data received via a network to reproduce the data, comprising:  
a receiving buffer for storing received packets;  
a reproducing means for reproducing data of the packets based on a reproduction clock;  
and  
a control means for performing control so as to reproduce data without breaks,  
wherein the control means controls the packets having been stored in the receiving buffer by their number, holds a reference value for the number of received packets, which is determined beforehand, and causes the reproducing means to start data reproduction when the number of packets exceeds the reference number; monitors a state of the receiving buffer and modifies, when the data in the buffer exceeds a predetermined buffer size, the size of the receiving buffer; and monitors the number of packets in the receiving buffer at intervals of a predetermined time period, and when a result shows increase or decrease in the number of packets with time, the control means, based on the result, modifies the receiving buffer size and the reference value for the number of received packets at which reproduction of data is started.

Claim 23 (Previously Presented): A packet processor for processing packets of data received via a network to reproduce the data, comprising:  
a receiving buffer for storing received packets;  
a reproducing means for reproducing data of the packets based on a reproduction clock;  
and  
a control means for performing control so as to reproduce data without breaks,  
wherein the control means controls the packets having been stored in the receiving buffer by their number, holds a reference value for the number of received packets, which is determined beforehand, and causes the reproducing means to start data reproduction when the number of packets exceeds the reference number; monitors a state of the receiving buffer and collects, when the data in the buffer is used up, data up to a level corresponding to the reference value before causing the reproducing means to restart data reproduction; and monitors the number of packets in the receiving buffer at intervals of a predetermined time period, and when a result shows

increase or decrease in the number of packets with time, the control means, based on the result, modifies a clock for data reproduction.

Claim 24 (Previously Presented): A packet processor for processing packets of data received via a network to reproduce the data, comprising:  
a receiving buffer for storing received packets;  
a reproducing means for reproducing data of the packets based on a reproduction clock;  
and  
a control means for performing control so as to reproduce data without breaks,  
wherein the control means controls the packets having been stored in the receiving buffer by their number, holds a reference value for the number of received packets, which is determined beforehand, and causes the reproducing means to start data reproduction when the number of packets exceeds the reference number; monitors a state of the receiving buffer and discards, when the data in the buffer exceeds a predetermined buffer size, a fixed amount of data from the buffer; and monitors the number of packets in the receiving buffer at intervals of a predetermined time period, and when a result shows increase or decrease in the number of packets with time, the control means, based on the result, modifies a clock for data reproduction.

Claim 25 (Currently Amended): A packet processor for processing packets of data received via a network to reproduce the data, comprising:  
a receiving buffer for storing received packets;  
a reproducing means for reproducing data of the packets based on a reproduction clock;  
and  
a control means for performing control so as to reproduce data without breaks,  
wherein the control means controls the packets having been stored in the receiving buffer by their number, holds a reference value for the number of received packets, which is determined beforehand, and causes the reproducing means to start data reproduction when the number of packets exceeds the reference number; monitors a state of the receiving buffer and modifies, when the data in the buffer is used up, the reference value for the number of received packets ~~packet~~ at which reproduction of data is started, upon a next reproduction of data; and monitors

the number of packets in the receiving buffer at intervals of a predetermined time period, and when a result shows increase or decrease in the number of packets with time, the control means, based on the result, modifies a clock for data reproduction.

Claim 26 (Previously Presented): A packet processor for processing packets of data received via a network to reproduce the data, comprising:

a receiving buffer for storing received packets;

a reproducing means for reproducing data of the packets based on a reproduction clock;

and

a control means for performing control so as to reproduce data without breaks,

wherein the control means controls the packets having been stored in the receiving buffer by their number, holds a reference value for the number of received packets, which is determined beforehand, and causes the reproducing means to start data reproduction when the number of packets exceeds the reference number; monitors a state of the receiving buffer and modifies, when the data in the buffer exceeds a predetermined buffer size, the size of the receiving buffer; and monitors the number of packets in the receiving buffer at intervals of a predetermined time period, and when a result shows increase or decrease in the number of packets with time, the control means, based on the result, modifies a clock for data reproduction.

Claim 27 (Currently Amended): A packet processor for processing packets of data received via a network to reproduce the data, comprising:

a receiving buffer for storing received packets;

a reproducing means for reproducing data of the packets based on a reproduction clock;

and

a control means for performing control so as to reproduce data without breaks,

wherein the control means controls the packets having been stored in the receiving buffer by their number, holds a reference value for the number of received packets, which is determined beforehand, and causes the reproducing means to start data reproduction when the number of packets exceeds the reference number; monitors a state of the receiving buffer and modifies, when the data in the buffer is used up, the reference value for the number of received packets

~~packet~~ at which reproduction of data is started, upon a next reproduction of data; and records the modifications of the reference value for the number of received packets or a receiving buffer size, continuously from a start of a communication, and if modifications of one type successively occur, the control means, based on the result, modifies the receiving buffer size and the reference value for the number of received packets at which reproduction of data is started.

Claim 28 (Previously Presented): A packet processor for processing packets of data received via a network to reproduce the data, comprising:  
a receiving buffer for storing received packets;  
a reproducing means for reproducing data of the packets based on a reproduction clock;  
and  
a control means for performing control so as to reproduce data without breaks,  
wherein the control means controls the packets having been stored in the receiving buffer by their number, holds a reference value for the number of received packets, which is determined beforehand, and causes the reproducing means to start data reproduction when the number of packets exceeds the reference number; monitors a state of the receiving buffer and modifies, when the data in the buffer exceeds a predetermined buffer size, the size of the receiving buffer; and records the modifications of the reference value for the number of received packets or a receiving buffer size, continuously from a start of a communication, and if modifications of one type successively occur, the control means, based on the result, modifies the receiving buffer size and the reference value for the number of received packets at which reproduction of data is started.

Claim 29 (Currently Amended): A packet processor for processing packets of data received via a network to reproduce the data, comprising:  
a receiving buffer for storing received packets;  
a reproducing means for reproducing data of the packets based on a reproduction clock;  
and  
a control means for performing control so as to reproduce data without breaks,

wherein the control means controls the packets having been stored in the receiving buffer by their number, holds a reference value for the number of received packets, which is determined beforehand, and causes the reproducing means to start data reproduction when the number of packets exceeds the reference number; monitors a state of the receiving buffer and modifies, when the data in the buffer is used up, the reference value for the number of received packets ~~packet~~ at which reproduction of data is started, upon a next reproduction of data; and records the modifications of the reference value for the number of received packets or a receiving buffer size, continuously from a start of a communication, and if modifications of one type successively occur, the control means, based on the result, modifies a clock for data reproduction.

Claim 30 (Previously Presented): A packet processor for processing packets of data received via a network to reproduce the data, comprising:

a receiving buffer for storing received packets;  
a reproducing means for reproducing data of the packets based on a reproduction clock;  
and

a control means for performing control so as to reproduce data without breaks,  
wherein the control means controls the packets having been stored in the receiving buffer by their number, holds a reference value for the number of received packets, which is determined beforehand, and causes the reproducing means to start data reproduction when the number of packets exceeds the reference number; monitors a state of the receiving buffer and modifies, when the data in the buffer exceeds a predetermined buffer size, the size of the receiving buffer; and records the modifications of the reference value for the number of received packets or the receiving buffer size, continuously from a start of a communication, and if modifications of one type successively occur, the control means, based on the result, modifies a clock for data reproduction.

Claim 31 (Previously Presented): A recording medium holding a packet processing program for use in a packet processor for processing packets of data received via a network to reproduce the data, wherein the packet processor comprises a receiving buffer for storing received packets; a reproducing means for reproducing data of the packets based on a

reproduction clock; and a control means for performing control so as to reproduce data without breaks, and

wherein the packet processing program is characterized in that the control means is adapted to control the packets having been stored in the receiving buffer by their number, hold with a reference value for the number of received packets, which is determined beforehand, and cause the reproducing means to start data reproduction when the number of packets exceeds the reference value; the control means is adapted to monitor a state of the receiving buffer and collect, when the data in the buffer is used up, data up to a level corresponding to the reference value before causing the reproducing means to restart data reproduction; and the control means is adapted to monitor the number of packets in the receiving buffer at intervals of a predetermined time period and when a result shows increase or decrease in the number of packets with time, the control means is operated to modify, based on the result, a receiving buffer size and the reference value for the number of received packets at which reproduction of data is started.

Claim 32 (Previously Presented): A recording medium holding a packet processing program for use in a packet processor for processing packets of data received via a network to reproduce the data, wherein the packet processor comprises a receiving buffer for storing received packets; a reproducing means for reproducing data of the packets based on a reproduction clock; and a control means for performing control so as to reproduce data without breaks, and

wherein the packet processing program is characterized in that the control means is adapted to control the packets having been stored in the receiving buffer by their number, hold with a reference value for the number of received packets, which is determined beforehand, and cause the reproducing means to start data reproduction when the number of packets exceeds the reference value; the control means is adapted to monitor a state of the receiving buffer and discard, when the data in the buffer exceeds a predetermined buffer size, a fixed amount of data from the buffer; and the control means is adapted to monitor the number of packets in the receiving buffer at intervals of a predetermined time period and when a result shows increase or decrease in the number of packets with time, the control means is operated to modify, based on



the result, the receiving buffer size and the reference value for the number of received packets at which reproduction of data is started.

Claim 33 (Currently Amended): A recording medium holding a packet processing program for use in a packet processor for processing packets of data received via a network to reproduce the data, wherein the packet processor comprises a receiving buffer for storing received packets; a reproducing means for reproducing data of the packets based on a reproduction clock; and a control means for performing control so as to reproduce data without breaks, and

wherein the packet processing program is characterized in that the control means is adapted to control the packets having been stored in the receiving buffer by their number, hold with a reference value for the number of received packets, which is determined beforehand, and cause the reproducing means to start data reproduction when the number of packets exceeds the reference value; the control means is adapted to monitor a state of the receiving buffer and modify, when the data in the buffer is used up, the reference value for the number of received packets ~~packet~~ at which reproduction of data is started, upon a next reproduction of data; and the control means is adapted to monitor the number of packets in the receiving buffer at intervals of a predetermined time period and when a result shows increase or decrease in the number of packets with time, the control means is operated to modify, based on the result, a receiving buffer size and the reference value for the number of received packets at which reproduction of data is started.

Claim 34 (Previously Presented): A recording medium holding a packet processing program for use in a packet processor for processing packets of data received via a network to reproduce the data, wherein the packet processor comprises a receiving buffer for storing received packets; a reproducing means for reproducing data of the packets based on a reproduction clock; and a control means for performing control so as to reproduce data without breaks, and

wherein the packet processing program is characterized in that the control means is adapted to control the packets having been stored in the receiving buffer by their number, hold

with a reference value for the number of received packets, which is determined beforehand, and cause the reproducing means to start data reproduction when the number of packets exceeds the reference value; the control means is adapted to monitor a state of the receiving buffer and modify, when the data in the buffer exceeds a predetermined buffer size, the size of the receiving buffer; and the control means is adapted to monitor the number of packets in the receiving buffer at intervals of a predetermined time period and when a result shows increase or decrease in the number of packets with time, the control means is operated to modify, based on the result, the receiving buffer size and the reference value for the number of received packets at which reproduction of data is started.

Claim 35 (Previously Presented): A recording medium holding a packet processing program for use in a packet processor for processing packets of data received via a network to reproduce the data, wherein the packet processor comprises a receiving buffer for storing received packets; a reproducing means for reproducing data of the packets based on a reproduction clock; and a control means for performing control so as to reproduce data without breaks, and

wherein the packet processing program is characterized in that the control means is adapted to control the packets having been stored in the receiving buffer by their number, hold with a reference value for the number of received packets, which is determined beforehand, and cause the reproducing means to start data reproduction when the number of packets exceeds the reference value; the control means is adapted to monitor a state of the receiving buffer and collect, when the data in the buffer is used up, data up to a level corresponding to the reference value before causing the reproducing means to restart data reproduction; and the control means is adapted to monitor the number of packets in the receiving buffer at intervals of a predetermined time period and when a result shows increase or decrease in the number of packets with time, the control means is operated to modify, based on the result, a clock for data reproduction.

Claim 36 (Previously Presented): A recording medium holding a packet processing program for use in a packet processor for processing packets of data received via a network to reproduce the data, wherein the packet processor comprises a receiving buffer for storing

received packets; a reproducing means for reproducing data of the packets based on a reproduction clock; and a control means for performing control so as to reproduce data without breaks, and

wherein the packet processing program is characterized in that the control means is adapted to control the packets having been stored in the receiving buffer by their number, hold with a reference value for the number of received packets, which is determined beforehand, and cause the reproducing means to start data reproduction when the number of packets exceeds the reference value; the control means is adapted to monitor a state of the receiving buffer and discard, when the data in the buffer exceeds a predetermined buffer size, a fixed amount of data from the buffer; and the control means is adapted to monitor the number of packets in the receiving buffer at intervals of a predetermined time period and when a result shows increase or decrease in the number of packets with time, the control means is operated to modify, based on the result, a clock for data reproduction.

Claim 37 (Currently Amended): A recording medium holding a packet processing program for use in a packet processor for processing packets of data received via a network to reproduce the data, wherein the packet processor comprises a receiving buffer for storing received packets; a reproducing means for reproducing data of the packets based on a reproduction clock; and a control means for performing control so as to reproduce data without breaks, and

wherein the packet processing program is characterized in that the control means is adapted to control the packets having been stored in the receiving buffer by their number, hold with a reference value for the number of received packets, which is determined beforehand, and cause the reproducing means to start data reproduction when the number of packets exceeds the reference value; the control means is adapted to monitor a state of the receiving buffer and modify, when the data in the buffer is used up, the reference value for the number of received ~~packets~~ ~~packet~~ at which reproduction of data is started, upon a next reproduction of data; and the control means is adapted to monitor the number of packets in the receiving buffer at intervals of a predetermined time period and when a result shows increase or decrease in the number of

packets with time, the control means is operated to modify, based on the result, a clock for data reproduction.

Claim 38 (Previously Presented): A recording medium holding a packet processing program for use in a packet processor for processing packets of data received via a network to reproduce the data, wherein the packet processor comprises a receiving buffer for storing received packets; a reproducing means for reproducing data of the packets based on a reproduction clock; and a control means for performing control so as to reproduce data without breaks, and

wherein the packet processing program is characterized in that the control means is adapted to control the packets having been stored in the receiving buffer by their number, hold with a reference value for the number of received packets, which is determined beforehand, and cause the reproducing means to start data reproduction when the number of packets exceeds the reference value; the control means is adapted to monitor a state of the receiving buffer and modify, when the data in the buffer exceeds a predetermined buffer size, the size of the receiving buffer; and the control means is adapted to monitor the number of packets in the receiving buffer at intervals of a predetermined time period and when a result shows increase or decrease in the number of packets with time, the control means is operated to modify, based on the result, a clock for data reproduction.

Claim 39 (Currently Amended): A recording medium holding a packet processing program for use in a packet processor for processing packets of data received via a network to reproduce the data, wherein the packet processor comprises a receiving buffer for storing received packets; a reproducing means for reproducing data of the packets based on a reproduction clock; and a control means for performing control so as to reproduce data without breaks, and

wherein the packet processing program is characterized in that the control means is adapted to control the packets having been stored in the receiving buffer by their number, hold with a reference value for the number of received packets, which is determined beforehand, and cause the reproducing means to start data reproduction when the number of packets exceeds the

reference value; the control means is adapted to monitor a state of the receiving buffer and modify, when the data in the buffer is used up, the reference value for the number of received ~~packets~~ packet at which reproduction of data is started, upon a next reproduction of data; and the control means is adapted to record the modifications of the reference value for the number of received packets or a receiving buffer size, continuously from a start of a communication, and if modifications of one type successively occur, the control means is operated to modify, based on the result, the receiving buffer size and the reference value for the number of received packets at which reproduction of data is started.

Claim 40 (Previously Presented): A recording medium holding a packet processing program for use in a packet processor for processing packets of data received via a network to reproduce the data, wherein the packet processor comprises a receiving buffer for storing received packets; a reproducing means for reproducing data of the packets based on a reproduction clock; and a control means for performing control so as to reproduce data without breaks, and

wherein the packet processing program is characterized in that the control means is adapted to control the packets having been stored in the receiving buffer by their number, hold with a reference value for the number of received packets, which is determined beforehand, and cause the reproducing means to start data reproduction when the number of packets exceeds the reference value; the control means is adapted to monitor a state of the receiving buffer and modify, when the data in the buffer exceeds a predetermined buffer size, the size of the receiving buffer; and the control means is adapted to record the modifications of the reference value for the number of received packets or the receiving buffer size, continuously from a start of a communication, and if modifications of one type successively occur, the control means is operated to modify, based on the result, the receiving buffer size and the reference value for the number of received packets at which reproduction of data is started.

Claim 41 (Currently Amended): A recording medium holding a packet processing program for use in a packet processor for processing packets of data received via a network to reproduce the data, wherein the packet processor comprises a receiving buffer for storing

received packets; a reproducing means for reproducing data of the packets based on a reproduction clock; and a control means for performing control so as to reproduce data without breaks, and

wherein the packet processing program is characterized in that the control means is adapted to control the packets having been stored in the receiving buffer by their number, hold with a reference value for the number of received packets, which is determined beforehand, and cause the reproducing means to start data reproduction when the number of packets exceeds the reference value; the control means is adapted to monitor a state of the receiving buffer and modify, when the data in the buffer is used up, the reference value for the number of received ~~packets~~ packet at which reproduction of data is started, upon a next reproduction of data; and the control means is adapted to record the modifications of the reference value for the number of received packets or a receiving buffer size, continuously from a start of a communication, and if modifications of one type successively occur, the control means is adapted to modify, based on the result, a clock for data reproduction.

Claim 42 (Previously Presented): A recording medium holding a packet processing program for use in a packet processor for processing packets of data received via a network to reproduce the data, wherein the packet processor comprises a receiving buffer for storing received packets; a reproducing means for reproducing data of the packets based on a reproduction clock; and a control means for performing control so as to reproduce data without breaks, and

wherein the packet processing program is characterized in that the control means is adapted to control the packets having been stored in the receiving buffer by their number, hold with a reference value for the number of received packets, which is determined beforehand, and cause the reproducing means to start data reproduction when the number of packets exceeds the reference value; the control means is adapted to monitor a state of the receiving buffer and modify, when the data in the buffer exceeds a predetermined buffer size, the size of the receiving buffer; and the control means is adapted to record the modifications of the reference value for the number of received packets or the receiving buffer size, continuously from a start of a

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communication, and if modifications of one type successively occur, the control means is adapted to modify, based on the result, a clock for data reproduction.